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EXPERIMENT STATION FILE
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UNITED STATES DEPARTMENT OF AGRICULTURE,
FOREST SERVICE.

HENRY S. GRAVES, Forester.

January Field Program, 1917.

This program of field work and assignments in the Forest Service is issued quarterly, on the 15th day of July, October, January, and April, and is for the exclusive use of members of the Service and cooperating bureaus. The names of members whose assignments are not yet fixed are necessarily omitted. All orders and other instructions printed in the Field Program will apply to all districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

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(59)

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Forage investigations.—William A. Dayton, plant ecologist, Washington, D. C.

Goat range study.—William R. Chapline, grazing assistant, Washington, D. C.

Range reserve experiments.—Jornado Reserve: L. C. Hurtt, grazing assistant, in charge; Clarence L. Forsling, grazing assistant, Las Cruces, N. Mex. Santa Rita Reserve: R. L. Hensel, forest assistant, in charge, Tucson, Ariz.

LANDS.

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SETTLEMENT.—F. L. HARVEY, in charge.

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FOREST INVESTIGATIONS.—RAPHAEL ZON, chief; S. T. DANA, assistant chief.

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FOREST PRODUCTS LABORATORY (in cooperation with the University of Wisconsin, Madison, Wis.).—HOWARD F. WEISS, director; Carlile P. Winslow, engineer in forest products.

Commercial extension.—ROLF THELEN.

Review of results.—FRANK J. HALLAUER.

Lumber studies.—D. G. WHITE.

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PATHOLOGY (in cooperation with the Bureau of Plant Industry).—C. J. HUMPHREY, in charge; Ruth M. Fleming, Paul J. Siggers.

INDUSTRIAL INVESTIGATIONS.—H. S. BETTS, in charge, Washington, D. C. Correlation of lumber grades and consumers' specifications, H. S. Betts and J. C. Nellis. Industrial statistics, Franklin H. Smith and A. H. Pierson. Departmental cooperation, inspection and revision of Government specifications, J. T. Harris and R. K. Helphenstine, jr. Tight and slack cooperage investigations, J. T. Harris. Box industry investigations, J. C. Nellis. Preparation of publications on uses of woods, W. D. Brush. Collection of material for sets of samples of commercial woods, W. D. Brush. Mechanical utilization of mill and factory waste, R. K. Helphenstine, jr. Lumber and stumpage price records, Franklin H. Smith. Blighted chestnut durability experiments, J. C. Nellis. Collaborator, A. B. Strough, New York.

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FOREST MAPS AND SURVEYS.—FRANK E. BONNER, assistant engineer, in charge; C. A. KOLB, geographer.

ATLAS.—G. B. BRUCE.

DRAFTING.—J. M. WITHEROW.

PHOTOGRAPHY.—E. S. SHIPP.

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PRODUCTS.—H. N. KNOWLTON, engineer in forest products.

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STUDIES.—H. S. YOUNGS, grazing examiner.

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CLAIMS.—P. J. O'BRIEN.

SETTLEMENT.—J. W. STREIT.

LAND CLASSIFICATION.—C. B. SWIM, assistant.

ENGINEERING.—E. W. KRAMER, district engineer.

FOREST MAPS AND SURVEYS.—G. H. LAUTZ.

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IDAHO.

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- Missoula.**—RUTLEDGE PARKER, forest supervisor, Missoula (WU, P—N).
- Sioux.**—See South Dakota.

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- Dakota.**—J. C. WHITHAM, forest supervisor, Camp Crook, S. Dak. (WU via Bellefourche—WF via Marmarth, N. Dak.)

SOUTH DAKOTA.

- Sioux.**—J. C. WHITHAM, forest supervisor, Camp Crook (WU via Bellefourche—WF via Marmarth, N. Dak.)

WASHINGTON.

- Kaniksu.**—J. F. FORSYTHE, forest supervisor, Newport, Wash. (WU via Priest River—Am, GN via Priest River) ; H. F. Lindsay, forest examiner.

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ENGINEERING.—ROBERT E. PRATT, district engineer.

FOREST MAPS AND SURVEYS.— ———.

EXPERIMENT STATIONS.

Fremont, Pike National Forest.— ———, Manitou, Colo.

Wagon Wheel Gap, Rio Grande National Forest.—ALONZA A. JUSTICE, of the Weather Bureau, Wagon Wheel Gap, Colo.

NATIONAL FORESTS.

COLORADO.

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Gunnison.—WILLIAM R. KREUTZER, forest supervisor, Gunnison (WU-WF) ; H. L. Borden, forest examiner.

Hayden.—See Wyoming.

Holy Cross.—HARRY H. FRENCH, forest supervisor, Glenwood Springs (WU-WF) ; Peter Keplinger, forest examiner.

La Sal.—See Utar, District 4.

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Sopris.—ARTHUR T. UPSON, forest supervisor, Aspen (WU-WF).

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Michigan.—HUBER C. HILTON, forest supervisor, East Tawas (WU-Am).

MINNESOTA.

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Superior.—LESLIE BROWNELL, forest supervisor, Ely (WU-GN).

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Nebraska.—JAY HIGGINS, forest supervisor, Halsey (WU-Ad). Morton Nursery, Nenzil, Theodore Krueger, forest examiner, in charge. Bessey Nursery, Jos. A. Sweeney, assistant forest ranger, in charge.

SOUTH DAKOTA.

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Hayden.—JAMES BLACKHALL, forest supervisor, Encampment (WU, P-Am.)

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Shoshone.—R. W. ALLEN, forest supervisor, Cody (WU-Ad) ; B. R. H. d'Allemand, forest examiner.

Washakie.—C. G. POOLE, forest supervisor, Lander (WU-Am) ; E. T. Wolf, forest examiner.

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Arizona and New Mexico. Office, Gas and Electric Building. Albuquerque, N. Mex.

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MAINTENANCE.—H. B. HAMMOND.

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W. H. LONG, consulting pathologist, Albuquerque, N. Mex.

GRAZING.—JOHN KERR, assistant district forester ; E. N. KAVANAGH, inspector of grazing.

STUDIES.—R. R. HILL, grazing examiner.

LANDS.—FRANK C. W. POOLER, assistant district forester; MORTON M. CHENEY and FRANK E. ANDREWS, national forest examiners. Classification: REX KING, forest examiner. Entry surveys: R. P. A. JOHNSON, C. D. HODSON, C. A. LONG, and LEE C. DAVES, surveyors.

ENGINEERING.—————.

FOREST MAPS AND SURVEYS.—W. H. GILL.

EXPERIMENT STATION.

Fort Valley, Coconino National Forest.—G. A. PEARSON, forest examiner, in charge, Flagstaff, Ariz.

NATIONAL FORESTS.

ARIZONA.

Apache.—FREDERICK WINN, forest supervisor, Springerville (P-WF); J. H. Sizer, deputy forest supervisor.

Coconino.—JOHN D. GUTHRIE, forest supervisor, Flagstaff (WU, P-WF); R. F. Balthis, deputy forest supervisor; Gordon T. Backus, forest examiner.

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Prescott.—J. C. MCNELTY, acting forest supervisor, Prescott (WU-WF).

Sitgreaves.—PAUL P. PITCHLYNN, forest supervisor, Snowflake (P-WF).

Tonto.—W. H. GODDARD, forest supervisor, Roosevelt (WU-WF).

Tusayan.—HAROLD GREENE, forest supervisor, Williams (WU, P-WF); George W. Kimball, forest examiner.

GRAND CANYON NATIONAL MONUMENT.—T. EARL WYLDER, deputy forest supervisor, Grand Canyon (WU, P-WF).

NEW MEXICO.

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Carson.—RAYMOND E. MARSH, forest supervisor, Taos (WU-G); E. S. Barker, deputy forest supervisor.

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Datil.—AUSBURN H. DOUGLAS, forest supervisor, Magdalena (WU, P-WF); E. G. Miller, deputy forest supervisor; H. Basil Wales, forest examiner.

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GRAZING.—HOMER E. FENN, assistant district forester ; ERNEST WINKLER, inspector of grazing.

STUDIES.—MARK ANDERSON, grazing examiner.

LANDS.—C. N. WOODS, assistant district forester ; R. E. GERY, assistant ; W. B. RICE, in charge of entry surveys.

RESEARCH.—C. F. KORSTIAN, forest examiner.

ENGINEERING.—J. P. MARTIN, district engineer.

FOREST MAPS AND SURVEYS.———.

EXPERIMENT STATION.

Utah, Manti National Forest.—ARTHUR W. SAMPSON, in charge ; F. S. Baker and L. H. Weyl, Ephraim, Utah.

NATIONAL FORESTS.

ARIZONA.

Dixie.—See Utah.

Kaibab.—LEE A. HARRIS, forest supervisor, Kanab, Utah (WU-WF).

IDAHO.

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Cache.—See Utah.

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Challis.—DAVID LAING, forest supervisor, Challis (WU-Am) ; E. C. Sanford, deputy forest supervisor.

Idaho.—H. C. WILLIAMS, forest supervisor, McCall (WU-P) ; Lawrence J. Phelan, deputy forest supervisor.

Lemhi.—C. I. HUDDLE, forest supervisor, Mackay (WU-Am).

Minidoka.—W. M. CAMPBELL, forest supervisor, Oakley (WU-Am) ; C. D. Simpson, forest examiner.

Palisade.—CHESTER B. MORSE, forest supervisor, St. Anthony (WU-Am) ; John Ingram, forest examiner.

Payette.—GUY B. MAINS, forest supervisor, Emmett (WU-Am) ; F. S. Moore, deputy forest supervisor.

Salmon.—JOHN A. PEARSON, forest supervisor, Salmon (WU-Am) ; S. S. Stewart, deputy forest supervisor.

Sawtooth.—M. S. BENEDICT, forest supervisor, Hailey (WU-Am) ; Herbert G. McPheters, deputy forest supervisor.

Targhee.—CHESTER B. MORSE, forest supervisor, St. Anthony (WU-Am) ; Samuel W. Stoddard, deputy forest supervisor.

Weiser.—J. B. LAFFERTY, forest supervisor, Weiser (WU-Am) ; A. E. Oman, forest examiner.

NEVADA.

Humboldt.—VERNON METCALF, forest supervisor, Elko (WU-WF) ; C. E. Favre, grazing studies.

Nevada.— ———, forest supervisor, Ely (WU-WF).

Ruby.—VERNON METCALF, forest supervisor, Elko (WU-WF).

Santa Rosa.—VERNON METCALF, forest supervisor, Elko (WU-WF).

Toiyabe.—W. W. BLAKESLEE, forest supervisor, Austin (WU, P-WF) ; Raymond G. Steele, deputy forest supervisor, Manhattan.

UTAH.

- Ashley.**—W. M. ANDERSON, forest supervisor, Vernal (WU-WF) ; Chas. F. Evans, forest examiner.
- Cache.**—E. C. SHEPARD, forest supervisor, Logan (WU-Am) ; Edmund B. S. Spencer, deputy forest supervisor ; L. J. Palmer, grazing studies.
- Dixie.**—WM. M. MACE, forest supervisor, St. George (WU-WF).
- Fillmore.**—JOHN RAPHAEL, forest supervisor, Richfield (WU-WF) ; Bert L. Robins, deputy forest supervisor ; J. C. Roak, forest examiner.
- Fishlake.**—C. A. MATTSSON, forest supervisor, Salina (WU-WF) ; David A. Arrivee, deputy forest supervisor ; Bryant S. Martineau, grazing studies.
- La Sal.**—S. B. LOCKE, forest supervisor, Moab (WU-WF).
- Manti.**—B. E. MATTSSON, forest supervisor, Ephraim (WU-WF) ; J. A. Willey, grazing studies.
- Minidoka.**—See Idaho.
- Powell.**—GEO. H. BARNEY, forest supervisor, Escalante (WU-WF).
- Sevier.**—J. W. HUMPHREY, forest supervisor, Panguitch (WU-WF) ; Wallace M. Riddle, deputy forest supervisor ; T. B. Nichols and H. W. Johnston, grazing studies.
- Uinta.**—A. W. JENSEN, forest supervisor, Provo (WU-WF) ; J. Carl Alfred, deputy forest supervisor ; J. W. Stokes, forest examiner.
- Wasatch.**—CARL B. ARENTSON, forest supervisor, Salt Lake City (WU, P-Am, WF) ; W. W. Smith, deputy forest supervisor ; Wm. F. Tribe, scaler, in charge of Standard Timber Co. sale.

WYOMING.

- Teton.**—R. E. MILLER, forest supervisor, Jackson (WU-Am).
- Wyoming.**—CHARLES A. BEAM, forest supervisor, Afton (WU-Am) ; L. F. Watts, forest examiner.

DISTRICT 5.

California and southwestern Nevada. Office, 114 Sansome Street, San Francisco, Cal.

COERT DUBOIS, district forester ; L. H. WHITEMAN, in charge information ; CLARENCE WILEY, national forest inspector.

LAW.—Office of the Solicitor (Forest Service branch). H. P. DECHANT, assistant to the solicitor, in charge.

ACCOUNTS.—A. W. SMITH, district fiscal agent.

OPERATION.—ROY HEADLEY, assistant district forester; D. P. GODWIN, national forest examiner, assigned to fire protection; FREDERICK H. HAFLEY, telephone expert; EVAN W. KELLEY, national forest examiner.

MAINTENANCE.—FRANK HAYNIE.

SILVICULTURE.—T. D. WOODBURY, assistant district forester; L. W. HESS, office assistant; SWIFT BERRY, forest examiner; J. C. ELLIOTT, lumberman.

W. H. GALLAHER, forest examiner, timber surveys.

RALPH HOPPING, national forest examiner, insect control.

E. P. MEINECKE, consulting pathologist; J. S. BOYCE, assistant pathologist.

GRAZING.—C. E. RACHEFORD, assistant district forester.

STUDIES.—F. D. DOUTHITT, grazing examiner.

LANDS.—L. A. BARRETT, assistant district forester; CHAS. S. BROTHERS, assistant; W. H. FRIEDHOFF, mineral examiner. Land classification: S. N. STONER, national forest examiner, in charge of district; J. O. MORROW, national forest examiner, in charge of field party; CARY HILL, forest examiner. Entry surveys: P. L. DAY, national forest examiner, surveyor.

ENGINEERING.—F. H. FOWLER, district engineer; RALPH R. RANDELL, assistant district engineer.

FOREST MAPS AND SURVEYS.— ———.

PRODUCTS.—C. STOWELL SMITH, assistant district forester, in charge; C. A. KUPFER, forest examiner.

EXPERIMENT STATIONS.

Feather River, Plumas National Forest.—J. A. MITCHELL, forest examiner, in charge, Quincy, Cal.; Stuart B. Show, forest examiner, assistant.

Converse, Angeles National Forest.—EDWARD N. MUNNS, forest examiner, in charge, Seven Oaks, Redlands, Cal.

NATIONAL FORESTS.

CALIFORNIA.

Angeles.—R. H. CHARLTON, forest supervisor, Los Angeles (WU, P-WF).

California.—J. D. COFFMAN, forest supervisor, Oriental (WU via Willows-WF via Fruto); B. H. Mace, deputy forest supervisor.

Cleveland.—N. H. SLOANE, forest supervisor, Escondido (WU-WF).

Eldorado.—EDWARD I. KOTOK, forest supervisor, Placerville (WU-WF).

Inyo.—A. H. HOGUE, forest supervisor, Bishop (WU-WF).

- Klamath.**—W. B. RIDER, forest supervisor, Yreka (WU-WF); Knowler Mills, forest examiner.
- Lassen.**—W. J. RUSHING, forest supervisor, Red Bluff (P-WF); M. R. Tillotson, deputy forest supervisor.
- Modoc.**—W. G. DURBIN, forest supervisor, Alturas (WU-WF); Oscar M. Evans, forest examiner.
- Mono.**—See Nevada.
- Monterey.**—HAMILTON G. MERRILL, forest supervisor, King City (WU-WF).
- Plumas.**—D. N. ROGERS, forest supervisor, Quincy (WU-Am); Frank B. Cayot, deputy forest supervisor; George R. Orr and Reese W. Taylor, forest examiners.
- Santa Barbara.**—J. R. HALL, forest supervisor, Santa Barbara (P-WF).
- Sequoia.**—S. W. WYNNE, forest supervisor, Bakersfield (WU-WF); F. P. Cunningham, deputy forest supervisor; George W. Lyons, forest examiner.
- Shasta.**—R. F. HAMMATT, forest supervisor, Sisson (P-WF); Belknap C. Goldsmith, forest examiner. Pilgrim Creek Nursery.
- Sierra.**—M. A. BENEDICT, forest supervisor, Northfork (WU via Friant-WF via Friant); Chester E. Jordan, deputy forest supervisor; D. C. Birch and Ernest G. Dudley, forest examiners.
- Stainslaus.**—R. W. AYRES, forest supervisor, Sonora (WU-WF); T. C. West, deputy forest supervisor; J. V. Wulff, forest examiner.
- Tahoe.**—R. L. P. BIGELOW, forest supervisor, Nevada City (WU-WF); W. A. Merrill, deputy forest supervisor; L. T. Larsen, forest examiner.
- Trinity.**—W. A. HUESTIS, forest supervisor, Weaverville (WU-WF); Ernest V. Jotter, forest examiner.

NEVADA.

- Eldorado.**—See California.
- Inyo.**—See California.
- Mono.**—WM. M. MAULE, forest supervisor, Gardnerville (WU-WF).
- Tahoe.**—See California.

DISTRICT 6.

Washington, Oregon, and Alaska. Office, Beck Building, Portland, Oreg.

GEO. H. CECIL, district forester; A. G. JACKSON, education.

LAW.—Office of the Solicitor (Forest Service branch). W. F. STALEY, assistant to the solicitor, in charge.

ACCOUNTS.—H. J. LOVING, district fiscal agent.

OPERATION.—C. H. FLORY, assistant district forester; SHIRLEY BUCK, national forest inspector.

MAINTENANCE.—H. M. WHITE.

M. L. MERRITT, assistant in improvement work; C. M. ALLEN, telephone engineer.

FIRE STUDIES.—W. B. OSBORNE, deputy forest supervisor; NORMAN G. JACOBSON, forest examiner.

SILVICULTURE.—F. E. AMES, assistant district forester; W. H. GIBBONS, investigation of logging costs; W. T. ANDREWS, AUSTIN CARY, and C. H. WOODCOCK, logging engineers; L. A. NELSON and EDWIN C. ERICKSON, lumbermen; A. J. JAENICKE, insect control; G. A. BRIGHT and A. A. GRIFFIN, forest examiners; ROBT. CRAIG, Jr., national forest examiner, timber surveys.

PLANTING.—J. F. KÜMMEL and W. H. LEVE, forest examiners.

FOREST INVESTIGATIONS.—T. T. MUNGER, forest examiner.

GRAZING.—T. P. MACKENZIE, assistant district forester; J. L. PETERSON, grazing examiner.

LANDS.—C. J. BUCK, assistant district forester.

CLAIMS.—W. M. H. WOODWARD, mineral examiner.

SETTLEMENT.—A. H. WRIGHT, national forest examiner.

USES AND STATIONS.—FRANK A. LAW, Jr., clerk.

LAND CLASSIFICATION.—J. ROY HARVEY, national forest examiner.

WASHINGTON STATE LAND EXCHANGE.—STANTON G. SMITH, forest supervisor.

ENGINEERING.—LEONARD LUNDGREN, district engineer.

FOREST MAPS AND SURVEYS.—ALLEN H. HODGSON.

PRODUCTS.—H. B. OAKLEAF, in charge; CLAUDE E. GREIDER and C. W. GOULD, Portland; C. W. ZIMMERMAN, CORNELIUS BARRY, and E. G. SNELL, Seattle, Wash.

EXPERIMENT STATION.

Wind River, Columbia National Forest.—JULIUS V. HOFMANN, forest examiner, in charge, Stabler, Wash.

NATIONAL FORESTS.

ALASKA.

Chugach.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU-AP, Am); Thomas M. Hunt, forest supervisor, Seward (WU, P-WF).

Tongass.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU-AP, Am); George L. Drake, deputy forest supervisor; R. E. Kan Smith, forest examiner.

OREGON.

- Cascade.**—C. R. SEITZ, forest supervisor, Eugene (WU, P-WF); B. E. Heinzelman, deputy forest supervisor.
- Crater.**—M. L. ERICKSON, forest supervisor, Medford (WU, P-WF); A. E. Cohoon, deputy forest supervisor; H. D. Foster, Bruce Hoffman, O. E. Erleson, forest examiners.
- Deschutes.**—W. W. G. HASTINGS, forest supervisor, Bend (WU, P); V. V. Harpham, deputy forest supervisor; W. J. Sproat, forest examiner.
- Fremont.**—GILBERT D. BROWN, forest supervisor, Lakeview (WU via Reno, Nev. P, WF); R. A. Bradley, deputy forest supervisor.
- Klamath.**—See California.
- Malheur.**—CY. J. BINGHAM, forest supervisor, John Day (WU via Baker-Am, WF via Baker).
- Minam.**—EPHRAIM BARNES, forest supervisor, Baker (WU-Am); W. E. White, forest examiner.
- Ochoco.**—HOMER ROSS, forest supervisor, Prineville (WU, PT & T-Am).
- Oregon.**—T. H. SHERRARD, forest supervisor, Portland (WU, P-Am, WF, N); Ralph S. Shelley, deputy forest supervisor; C. B. Neal, forest examiner.
- Santiam.**—C. C. HALL, forest supervisor, Albany (WU, P-WF); A. R. Wilcox, forest examiner.
- Siskiyou.**—N. E. MACDUFF, forest supervisor, Grants Pass (WU, P-WF); D. B. Reynolds, deputy forest supervisor; H. A. Haefner, forest examiner.
- Siuslaw.**—H. B. RANKIN, forest supervisor, Eugene (WU, P-WF); C. T. Beach, deputy forest supervisor; H. M. Johnson and L. B. Pagter, forest examiners.
- Umatilla.**—W. W. CRYDER, forest supervisor, Pendleton (WU, P-Am); E. B. Kellogg, forest examiner.
- Umpqua.**—S. C. BARTRUM, forest supervisor, Roseburg (WU, P-WF); George Bonebrake, deputy forest supervisor; R. S. Wallace, forest examiner.
- Wallowa.**—H. W. HARRIS, forest supervisor, Wallowa (WU-Am); N. J. Billings, deputy forest supervisor.
- Wenaha.**—See Washington.
- Whitman.**—R. M. EVANS, forest supervisor, Sumpter (WU via Baker-Am, WF via Baker); F. A. Matz, deputy forest supervisor; T. J. Starker, forest examiner.

WASHINGTON.

- Chelan.**—E. H. MACDANIELS, forest supervisor, Chelan (PT & T-Am, GN via Wenatchee).
- Columbia.**—F. H. BRENDAGE, forest supervisor, Portland, Oreg. (WU, P-Am, WF, N); L. Wernsted, forest examiner.

- Colville.—C. C. REID, forest supervisor, Republic (WU, P-Am, GN) ; F. W. Cleator, deputy forest supervisor.
- Okanogan.—H. M. HALE, forest supervisor, Okanogan (PT & T-Am, GN via Wenatchee) ; L. E. McDaniels, deputy forest supervisor.
- Olympic.—R. L. FROMME, forest supervisor, Olympia (WU, P-Am, GN, N) ; A. A. Parker, deputy forest supervisor ; E. J. Hanzlik, Geo. W. Hutton, forest examiners.
- Rainier.—G. F. ALLEN, forest supervisor, Tacoma (WU, P-Am, N) ; P. T. Harris, deputy forest supervisor ; A. E. Kerr, forest examiner.
- Snoqualmie.—LEWIS A. TREEN, Jr., acting forest supervisor, Seattle (WU, P-N, GN, WF) ; E. J. Fenby, forest examiner.
- Washington.—C. H. PARK, forest supervisor, Bellingham (WU, P-Am, GN, N) ; R. L. Campbell, deputy forest supervisor.
- Wenaha.—J. M. SCHMITZ, forest supervisor, Walla Walla (WU-Am, N).
- Wenatchee.—A. H. SYLVESTER, forest supervisor, Leavenworth (WU-Am, GN) ; W. K. Ramsdell, forest examiner.

DISTRICT 7.

Arkansas, Florida, Oklahoma, South Carolina, Georgia, North Carolina, Tennessee, Virginia, West Virginia, New Hampshire, Porto Rico. Office, Atlantic Building, Washington, D. C.

WM. L. HALL, district forester ; FRANKLIN W. REED, assistant district forester ; H. O. STABLER, assistant district forester ; FRANCIS KIEFER, assistant district forester ; W. F. HILL, deputy forest supervisor ; S. L. WOLFE, forest examiner, in charge of products ; E. L. LINDSAY, forest examiner, exhibits.

NATIONAL FORESTS.

ARKANSAS.

- Arkansas.—R. C. HUEY, forest supervisor, Hot Springs (WU, P-WF, P) ; E. J. Mead, deputy forest supervisor.
- Ozark.—E. V. CLARK, forest supervisor, Harrison (WU-WF) ; C. J. Heller, forest examiner.

FLORIDA.

- Florida.—I. F. ELDREDGE, forest supervisor, Pensacola, Fla. (WU, P) ; L. L. Bishop, forest examiner, land classification.

OKLAHOMA.

Wichita.—FRANK RUSH, forest supervisor, Cache (WU-WF).

PORTO RICO.

Luquillo.—(Not under administration.)

PURCHASE AREAS.

Boone.—J. J. FRITZ, forest examiner, in charge, Marion, N. C. (WU, P-So).

Cherokee-Georgia.—H. G. SPAHR, forest examiner, in charge, Blue Ridge, Ga. (WU, P-Ad).

Massanutten.—E. D. CLARK, forest examiner, in charge, Woodstock, Va. (WU, P-So).

Monongahela.—H. L. JOHNSON, forest examiner, in charge, Elkins, W. Va. (WU, P-Ad).

Mount Mitchell.—J. J. FRITZ, forest examiner, in charge, Marion, N. C. (WU, P-So).

Nantahala.—R. F. HEMINGWAY, forest examiner, in charge, Andrews, N. C. (WU, P-So).

Natural Bridge.—J. H. FAHRENBACH, forest examiner, in charge, Buena Vista, Va. (WU, P-Ad, So).

Pisgah.—VERNE RHOADES, forest supervisor, Asheville, N. C. (WU, P-So).

Potomac.—E. D. CLARK, forest examiner, in charge, Woodstock, Va. (WU, P-So).

Savannah.—R. W. SHIELDS, forest examiner, in charge, Clayton, Ga. (WU, P-So).

Shenandoah.—S. H. MARSH, forest examiner, in charge, Harrisonburg, Va. (WU, P-Ad, So).

Unaka.—E. P. BUSHNELL, forest examiner, in charge, Johnson City, Tenn. (WU, P-So).

White Top.—H. L. RUSSELL, forest examiner, in charge, Abingdon, Va. (WU, P-So).

White Mountain.—J. S. BENEDICT, forest examiner, in charge, Gorham, N. H. (WU, P-Am).

SERVICE CHANGES.

APPOINTED.

RESEARCH.—Laboratory: L. F. Hawley (reappointed), chemist in forest products; Charles R. Cressy, assistant chemist in forest products; Kenneth E. Skidmore, messenger boy; Cora M. Gallagher, clerk (typewriter).

DISTRICT 1.—Wm. L. Baldwin and Frank J. Klobucher, Flathead, forest assistants; John S. Bowen, Beartooth, Albert E. Cole and James A. Irvine, Deerlodge, Guy M. Brandborg and C. Freeman Martineau, jr., Helena, forest rangers; Georgia Hollier, Absaroka, Elizabeth P. Dill, Flathead, Ina M. Jenkins, Florence Coffin, Alice M. Lindsay, and Esther C. Stoll, clerks (stenographers and typewriters); Lloyd Zbinden, messenger boy.

DISTRICT 2.—Paul B. Whitney, Jesse P. Dunnagan, civil engineers and draftsmen; Herbert H. Kuphal, draftsman (topographic); Daniel J. McNamara, Leadville, forest clerk; Francis S. Morrison, Regina T. Bermine, clerks (stenographers and typewriters); Edwin L. Bennett, Cochetopa, Frank Gray, Montezuma, Paul D. Irwin, San Juan, Robt. E. Clark, jr., and Oscar L. Nelson, Shoshone, Frank H. Bailey, Washakie, forest rangers.

DISTRICT 3.—George D. Russell, Datil, Louis H. Waters, forest rangers; Antoine M. Caisse, Carson, clerk; Josephine Dye, Sitgreaves, Jane Dyer, Tonto, Edith P. K. Hall, clerks (stenographers and typewriters).

DISTRICT 4.—William L. Brett, Fillmore, forest clerk; Bess E. O'Neill, Humboldt, Howard D. Harris, Manti, clerks (typewriters); Alexander McQueen, Cache, Jack Albano, Palisade, forest rangers; Thoburn C. Lyon, draftsman (topographic).

DISTRICT 5.—Ira C. Butler, Lassen, forest clerk; Mary E. Crossley, Harold Sears, Lassen, Clarence W. Griggs, Sierra, clerks (stenographers and typewriters); Ralph W. Sinfield, blue printer.

DISTRICT 6.—Ruth M. Borland, clerk (stenographer and typewriter); Benj. A. Eddy, map colorist; Emil F. Dallenbach, messenger boy.

DISTRICT 7.—Wm. G. Morison, White Mountain; Charles W. Fritts, Thomas F. Hale, John E. Blalock, Joseph R. Gill, Tollie T. Hall, Wm. D. Jones, John W. Ryals, Arkansas, John F. Keckley, Potomac, John W. Crisman, Massanutten, Monroe Coffey, Boone, Max McCullough, Savannah, assistant forest rangers.

PROMOTED IN RANK.

OPERATION.—A. H. Cousins, district fiscal agent, District 6, to property assistant, Ogden Supply Depot.

DISTRICT 1.—J. C. Whithan, deputy forest supervisor, Beartooth, to forest supervisor, Sioux; E. A. Anderson, Blackfeet, forest ranger to deputy forest supervisor; W. J. Derrick, forest ranger, Helena, to deputy forest supervisor, Beartooth; F. J. Jefferson, Lewis and Clark, forest ranger to deputy forest supervisor; David S. Olson, forest ranger to planting assistant.

DISTRICT 2.—Earl S. Peirce, Medicine Bow, forest examiner to forest supervisor; James F. Conner, Harney, deputy forest supervisor to forest supervisor.

DISTRICT 3.—L. Vernon Slonaker, national forest examiner to telephone engineer; T. Earl Wylder, Tusayan, forest ranger to deputy forest supervisor; Robert F. Rhinehart, Alamo, John C. Vandevier and Ernest T. F. Wohlenberg, Coconino, Thomas P. Reid, Tusayan, forest rangers to scalers.

CHANGE IN DESIGNATION.

DISTRICT 2.—Jos. A. Sweeney, Nebraska, Chas. F. Capes, Routt, assistant forest rangers, to forest rangers.

DISTRICT 3.—William H. Pierce, Coconino, Kenneth C. Balcomb, assistant forest rangers, to forest rangers.

DISTRICT 6.—Raymond H. Chapler, Columbia, forest ranger, to forest assistant; Alex. G. Jackson, deputy forest supervisor, to forest examiner; H. Vivian Brown, assistant forest ranger, to forest ranger; Chas. J. Kraebel, forest ranger, to forest assistant.

RESIGNED.

RESEARCH.—Laboratory: F. W. Kressmann, chemist in forest products; Sidney D. Wells, engineer in forest products; Clyde L. Moore, assistant engineer in forest products.

DISTRICT 1.—George A. Schattenburg, Missoula, deputy forest supervisor; Alfred B. Hastings, Deerlodge, forest examiner; Joshua A. Cope, Flathead, forest assistant; Wm. W. Fuller, Bitterroot, Homer J. Barber, Beaverhead, Hubert P. Harmon, Blackfeet, Thomas Paine DeLano and Solomon E. Perlman, Cabinet, J. B. Taylor, Deerlodge, F. R. Paine, Flathead, Howard E. West, Gallatin, Charles Larson, Helena, G. M. Blackwell, Kootenai, forest rangers; R. W. French, Flathead, forest clerk; Rose A. McNamara, St. Joe, clerk (stenographer and typewriter); Charles F. Farmer, civil engineer; Napier Knightlie, draftsman (copyist-topographic).

DISTRICT 2.—R. P. Imes, Harney, forest supervisor; Herman E. Anderson, Bighorn, Vance I. Coe, Black Hills, Glenn Williams, Cochetopa,

A. E. Stephenson, Montezuma, Fred W. Ryden, San Juan, Frank O. Sparhawk, Shoshone, forest rangers; Ralph B. Grabill, Pike, clerk; John B. Sutherland, Leadville, Claude I. Depuy, Montezuma, forest clerks; Samuel M. Ballard, surveyor-draftsman; Jesse P. Dunnagan, civil engineer and draftsman; J. H. Ramskill, forest examiner.

DISTRICT 3.—Alexander Best, Carson, Joseph Eggum, Datil, John V. Hobbie, Lincoln, George R. Yorke, Prescott, Marion A. Gregory and Fabian F. McCarthy, Santa Fe, Paul E. Miller, Tusayan, forest rangers; Verna H. Seeley, forest clerk.

DISTRICT 4.—Rama Heikes, Caribou, Harrold C. Haglund, Powell, Harry H. Power, Salmon, forest clerks; John S. Bennett and Grant Carpenter, Ashley, Alfred C. Toland, Caribou, Thomas J. Burke, Fillmore, Joseph W. Asdale, Humboldt, Fred V. Diers, Lemhi, Raymond J. Becraft, Manti, Robert A. Tempest, Palisade, Philip Baker, Powell, Frank A. Travis, Ruby, Horace B. Howland, Sawtooth, Noel C. Heath, Uinta, Oliver F. Vose, Weiser, forest rangers; Florence E. Cooney, clerk (typewriter); George L. Peeples, draftsman (copyist-topographic); Robert E. Conner, property clerk.

DISTRICT 5.—Guy S. Exon and Wm. R. Darling, Cleveland, Walter L. Kelley and D. A. McMillan, Plumas, Jordan H. Horwege and Garrett M. Wikoff, Tahoe, forest rangers; Wm. L. Mayhew, Lassen, forest clerk.

DISTRICT 6.—Ernest Jameson, Okanogan, Ernest R. Paull, Olympia, assistant forest rangers; Milo C. Caughrean, Tongass, gas engineer; Emma M. Zimmer, Dorothea M. Koerber, clerks (stenographers and typewriters); Roy A. Knaup, draftsman.

DISTRICT 7.—W. A. Hopson, Monongahela, forest examiner.

DISMISSED.

DISTRICT 1.—Arthur C. Haines, Sioux, forest supervisor.

With deep regret announcement is made of the death of W. A. Smith, forest ranger, Santa Barbara, September 19; Joseph S. Noel, draftsman, Washington office, December 10; Alfred C. Anderson, clerk, Michigan, December 27; E. T. Wehrly, forest ranger, Sopris, December 29.

SERVICE NOTES FOR JANUARY.

These notes contain instructions and necessary information to forest officers, and will therefore be carefully read and kept on file for reference.

EDITOR.

Agricultural Yearbook—

A limited supply of the Yearbook of the Department of Agriculture for 1916, which will be issued probably in April, 1917, is allotted to the Forest Service for its members. Copies will be supplied as in former years to district foresters and supervisors for their personal use. Other forest officers may have personal copies by sending their names to the Forester. Requests will be filed and filled in the order of their receipt as long as the supply lasts. Copies will be supplied as usual by the Library for district libraries.

SERVICE ORDER 47.

Establishment of Branch of Engineering—

The Branch of Engineering is hereby established in the Washington office of the Forest Service, under the direction of O. C. Merrill, chief engineer, comprising the present office of the chief engineer and the Office of Geography with its component sections of Atlas, Drafting, and Photography. The changes in organization and procedure involved will be effective January 1, 1917.

LAW.

OFFICE OF THE SOLICITOR.

Law Cases in District 1—

United States *v.* T. D. Farrow and Fidelity & Deposit Co., of Maryland: Action on timber sale bond. Case closed upon payment by surety company of \$2,000, full amount of bond, to cover damage sustained by United States by reason of Farrow's failure to comply with terms of timber sale contract.

United States *v.* Mrs. R. P. Galloway: Grazing trespass, civil. Wrote trespasser demanding \$49.30, value of forage consumed. Letter was returned unclaimed. Supervisor reported that the woman had left the country and recommended that the case be dropped. Case closed in law.

United States *v.* Great Northern Railway Co., Winston Bros. Co., and C. W. Werdenhoff: Fire trespass, civil, Lewis and Clark National Forest. Petition for new trial filed in November, 1916.

United States *v.* Lane Lumber Co. (bankrupt): Timber trespass, civil, Coeur d'Alene National Forest. Proceedings before referee in bankruptcy November 25 in reference to priorities.

United States *v.* Hans L. Miller: Occupancy trespass, civil, Beartooth National Forest. Trespass on ranger station. Complaint filed November 18, 1916.

United States *v.* J. E. Sodergren: Grazing trespass, civil, Beaverhead National Forest. Case closed upon payment of \$13.70, value of forage consumed.

United States *v.* Albert P. Wicks: Fire trespass, criminal, Madison National Forest. Information filed by United States attorney November 22, 1916.

Law Cases in District 2—

United States *v.* Roerig, Dunwoody, and Kirkley: Fire trespass, Pike National Forest. Case presented to grand jury for the District of Colorado on November 25; no indictment returned.

United States *v.* Thomas J. Van Arsdale: Defendant charged with personating a Government officer. Defendant entered a plea of guilty in the district court for the District of Colorado and was sentenced to pay a fine of \$25 and costs, amounting to approximately \$20.

United States *v.* Carbon Timber Co.: Timber trespass, Hayden National Forest. Judgment in favor of the United States in the sum of \$4,507.70. There is included in this amount \$1,883.55 interest, at the rate of 8 per cent per annum since December 31, 1907, the date of the final trespass.

United States *v.* Carbon Timber Co., and Elk Mountain Mercantile Co.: Fire trespass, Medicine Bow National Forest. Judgment in favor of the United States against the Elk Mountain Mercantile Co. in the sum of \$22,076.46. Included in this amount is the sum of \$2,099.79 damage to immature timber. The court refused to allow the inclusion of an item of \$527.29, representing the amount expended by the Government in the payment of salaries of regularly employed forest officers, who assisted in extinguishing the fire.

United States *v.* W. H. McKinley: Grazing trespass, Montezuma National Forest. Case closed through payment of judgment in the sum of \$300 and \$320.02 costs, a total of \$620.02.

United States *v.* Arthur Harvey: Occupancy trespass, Black Hills National Forest. Injunction granted by the district court for the District of South Dakota, enjoining defendant from continuing to occupy and use lands for agricultural and grazing purposes held by the defendant under placer mining locations; also decree ordering defendant to remove fences upon such lands.

United States *v.* Baatz and Peavey: Fire trespass, Routt National Forest. Case settled through payment of the sum of \$140.

United States *v.* Safe Investment Gold Mining Co.: Suit to cancel patents to mining claims, Black Hills National Forest. Decision by Judge Elliott of the District of South Dakota in favor of the defendant company.

United States *v.* Frank Blackburn: Fire trespass, Pike National Forest. Settled by payment of \$10.80.

United States *v.* Guy Jewell: Grazing trespass, Cochetopa National Forest. Settled by payment of \$14.17.

Law Cases in District 3—

United States *v.* J. R. Martinez: Grazing trespass, Carson National Forest. Case closed on payment of \$2.17, the value of the forage.

United States *v.* Daniel Trujillo: Grazing trespass, Carson National Forest. Case closed on payment of \$4.78, the value of the forage.

United States *v.* German Trujillo: Grazing trespass, Carson National Forest. Case closed on payment of \$11.22, the value of the forage.

United States *v.* E. Rockhill: Grazing trespass, Carson National Forest. Case closed on payment of \$34.55, the value of the forage.

United States *v.* Presbitor Chavez: Grazing trespass, Manzano National Forest. Case closed on payment of \$35.91, the value of the forage.

United States *v.* Newman & Hess: Grazing trespass, Sitgreaves National Forest. Case closed on payment of \$2, the value of the forage.

United States *v.* Alamogordo Lumber Co.: Timber trespass, Alamo National Forest. Case closed on payment of \$22.71, the value of the timber.

United States *v.* Reid Cosheon Land and Cattle Co.: Grazing trespass, Prescott National Forest. Case closed on payment of \$32.48, the value of the forage.

United States *v.* W. W. Moore: Grazing trespass, Tonto National Forest. Case closed on payment of \$487.80, the value of the forage.

United States *v.* Redondo Development Co.: Occupancy trespass, Santa Fe National Forest. Decision for defendant—appeal recommended.

United States *v.* Manuel Pino: Grazing trespass, Datil National Forest. Defendant's offer of \$50 in settlement (\$7 actual and \$43 punitive damages) pending.

Law Cases in District 4—

United States *v.* Henry Cendagorta: Grazing trespass, Cache National Forest. Case closed on payment of \$45.60, value of forage.

United States *v.* Alvin M. Ellis: Grazing trespass, Lemhi National Forest. Case closed on payment of \$201.60, value of forage.

United States *v.* T. J. Glen: Grazing trespass, Weiser National Forest. Case closed on payment of \$5.88, value of forage.

United States *v.* Joseph Hatch and Ralph Hicks: Grazing trespass, Wasatch National Forest. Case closed on payment of \$25 actual damages and \$25 punitive.

United States *v.* Roy Howland: Grazing trespass, Weiser National Forest. Case closed on payment of \$8.40, value of forage.

United States *v.* LeMoyne Bros.: Grazing trespass, Sawtooth National Forest. Case closed on payment of \$10.35, value of forage.

United States *v.* I. Ludovic: Grazing trespass, Minidoka National Forest. Compromise settlement offered, defendant to pay \$7.20 actual damages, \$42.80 punitive damages, and \$23.90 costs.

United States *v.* Oliver Martiny: Grazing trespass, Lemhi National Forest. Case closed on payment of \$9.80, value of forage.

United States *v.* John E. Milleeson: Grazing trespass, Wyoming National Forest. Case closed by settlement in the sum of \$7.70, actual damages.

United States *v.* Elmer D. Reese: Grazing trespass, Lemhi National Forest. Case closed on payment of \$24, value of forage.

United States *v.* J. S. Russell: Grazing trespass, Wasatch National Forest. Case closed on payment of \$4.50, value of forage.

United States *v.* J. F. Skillern and Bros.: Grazing trespass, Sawtooth National Forest. Case closed on payment of \$11.94, value of forage.

United States *v.* Wm. Smart: Grazing trespass, Ashley National Forest. Case closed on payment of \$17.50, value of forage.

United States *v.* Stahley Bros.: Grazing trespass, Wasatch National Forest. Case closed on payment of \$24.55, value of forage.

United States *v.* J. E. Strong: Grazing trespass, Minidoka National Forest. Case closed on payment of \$23.64, value of forage.

United States *v.* Orson Williams's estate and Willard Williams: Grazing trespass, Ashley National Forest. Case closed on payment of \$10.50, value of forage.

United States *v.* Wood Livestock Co.: Grazing trespass, Lemhi National Forest. Case closed on payment of \$115.20, value of forage.

United States *v.* Thomas Tobin: Fire trespass, Salmon National Forest. Indictment returned by the grand jury at Pocatello, Idaho.

United States *v.* Charles Curtis: Fire trespass, Idaho National Forest. Defendant bound over in the sum of \$200 to appear before United States court at Moscow, Idaho.

Law Cases in District 6—

United States *v.* John Illingsworth: Timber trespass, Oregon National Forest. Case closed on payment of \$8.20, the value of the timber.

United States *v.* Mountain Mill Co.: Timber trespass, Rainier National Forest. Case closed on payment of \$66.73, the value of the timber.

United States *v.* William P. Vernon: Grazing trespass, Fremont National Forest. Case closed on payment of \$30, the forage value.

United States *v.* J. A. Burleigh: Grazing trespass, Wallowa National Forest. Case closed on payment of \$50, the forage value.

United States *v.* A. E. Davidson: Fire trespass, Columbia National Forest. On November 10, 1916, A. E. Davidson was indicted by the Federal grand jury for setting out fire which destroyed Government timber. On November 15, 1916, Mr. Davidson plead guilty in the United States District Court for the Western District of Washington and was sentenced to pay a fine of \$50. Sentence was suspended for 60 days to afford him an opportunity to raise the money.

United States *v.* P. B. Wickman: Timber trespass, Siskiyou National Forest. Case closed on payment of \$10.96, the value of the timber.

United States *v.* Henry S. Neel: Grazing trespass, Umatilla National Forest. Case closed on payment of \$37.24, the forage value.

SERVICE PUBLICATIONS ISSUED.

Department Bulletin 354.—Forests of Porto Rico; Past, Present, and Future, and Their Physical and Economic Environment.

Department Bulletin 426.—Sugar Pine.

Unnumbered publication.—Forestry Laws of Ohio.

Unnumbered publication.—Forestry Laws of Connecticut.

Office of the Secretary, Circular 69.—Forest Fires in the United States in 1915.

CUMULATIVE INDEX TO SERVICE NOTES AND ORDERS.

[January, 1917.]

[Numbers in parenthesis after the month indicate page.]

Agriculture Yearbook; Jan. (82).

Establishment of Branch of Research—Service Order 47; Jan. (82).

State cooperation; July (25).

Law cases in district 1; July (26); Oct. (54); Jan. (82).

2; July (26); Oct. (54); Jan. (83).

3; July (27); Oct. (54); Jan. (84).

4; July (28); Oct. (55); Jan. (84).

5; Oct. (55).

6; July (28); Oct. (56); Jan. (85).

Action on timber sale bond, district 1; Jan. (82).

Condemnation proceedings, district 5; Oct. (56).

Cancellation of patents to mining claims, district 2; Jan. (84).

Personating a Government officer, district 2; Jan. (83).

Trespass cases, property, district 2; Oct. (54).

4; July (28).

timber, district 1; July (26); Jan. (83).

2; July (26); Oct. (54); Jan. (83).

3. Jan. (84).

4; July (28).

5; Oct. (56).

6; July (28); Jan. (85).

fire, district 1; July (26); Oct. (54); Jan. (82).

2; July (26); Oct. (54); Jan. (83).

4; Oct. (55); Jan. (85).

5; Oct. (56).

6; July (28); Jan. (86).

grazing, district 1; July (26); Oct. (54); Jan. (82).

2; July (26); Oct. (54); Jan. (83).

3; July (27); Oct. (54-55); Jan. (84).

4; July (28); Oct. (55); Jan. (84).

5; Oct. (55-56).

6; July (28); Oct. (56); Jan. (85-86).

occupancy, district 1; July (26); Jan. (83).

2; July (26); Jan. (83).

3; July (27); Oct. (55); Jan. (84).

4; Oct. (55).

6; Oct. (56).

(87)

